# Hardware Support For Partitioning A Multiprocessor System
## To Allow Distinct Operating Systems

### Abstract of the Disclosure

A system and method of partitioning a multiprocessor or multinode computer system

5        containing two or more partitions each of which contain at least three nodes or processors and

a central hardware device communicating with a requestor node or processor, a target node or

processor and at least one additional node or processor in the partition. The multiprocessor

system architecture allows for partitioning resources to define separate subsystems capable of

running different operating systems simultaneously. The method operates with the central

10       device, a tag and address crossbar system, which transmits requests for data from the requestor

node to the target node, but not to any of the additional nodes or processors which are not

defined as part of a given partition. The method provides steps of assignment of definitions to

physical ports with the central device corresponding with desired partitioning of resources

within the system. Data processed within the system is assigned tags which themselves are

15       related to the defined system resources allocated to one or more desired partitions within the

system.